

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method for identifying objects in an image comprising:
 - receiving an image with a first resolution;
 - processing the image at a second resolution to identify an object in the image at the second resolution; and
 - processing the image at the first resolution using the identified object to identify another object according to a detection algorithm selected from among plural detection algorithms based on a condition associated with the object identified at the second resolution, wherein the first resolution is higher than the second resolution.
2. (Original) The method of claim 1, further comprising:
 - processing the image at a third resolution to identify yet another object, wherein the yet another object is employed in the identification of the object and the another object, wherein the second resolution is higher than the third resolution.
3. (Original) The method of claim 2, further comprising:
 - downsampling the image from the first resolution to the second resolution;
 - and
 - downsampling the image from the second resolution to the third resolution.

4. (Original) The method of claim 1, wherein the processing is performed as a function of a type of terrain in the image.

5. (Original) The method of claim 4, wherein the type of terrain is identified using a priori information and a gray level co-occurrence identification.

6. (Original) The method of claim 1, further comprising:
determining whether the object and the another object are desired objects based upon a context associated with the image.

7. (Original) The method of claim 1, wherein the object is a river.

8. (Previously Presented) The method of claim 2, wherein the processing of the image at the third resolution comprises:
identifying portions of the image containing clouds; and
identifying portions of the image containing bodies of water, wherein if portions of the image are identified which contain clouds or bodies of water, identifying the clouds or bodies of water as the yet another object.

9. (Previously Presented) The method of claim 8, wherein the identified portions of the image containing clouds or bodies of water are employed in the identification of objects in the image at the second resolution and other objects in the image at the first resolution.

10-49. (Canceled)

50. (New) The method of claim 1, wherein the detection algorithm for identifying the other object at the first resolution is automatically selected from among the plural detection algorithms.

51. (New) The method of claim 1, wherein the plural detection algorithms include at least two algorithms respectively corresponding to gray level co-occurrence identification, linear object identification, primitive extraction identification, cloud masking, river masking, activity detection identification, edge extraction identification, gradient magnitude thresholding, busy mask identification, gradient direction edge thinning, line extraction identification, segmentation, region merging, collinear line identification, parallel line identification, parallel edge identification, intensity valuation identification, intensity variance identification, small object detection, morphological filtering, structure detection, lines of communication detection, and contextual line reasoning.

52. (New) The method of claim 2, wherein the processing of the image at the first resolution includes using the object identified at the second resolution to identify the other object according to a detection algorithm selected from among plural detection algorithms based on a condition associated with the object identified at the second resolution and a condition associated with the yet another object identified at the third resolution.